



iPhone 6s Rear Case Replacement

Remove all components from an iPhone 6s to transplant into a new rear case.

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INTRODUCTION

Use this guide to replace a bent or damaged rear case, or to swap out the rear case for cosmetic reasons. The rear case serves as the chassis for the entire phone, so replacing it involves removing all the iPhone's components.

You can also use this guide for reference when replacing the following parts:

- [NFC Bracket](#)
- Loudspeaker Mount
- Microphone Mount
- Front Panel Clips



TOOLS:

- [Nut Driver 2.5 mm](#) (1)
- [P2 Pentalobe Screwdriver iPhone](#) (1)
- [Suction Handle](#) (1)
- [Spudger](#) (1)
- [Phillips #000 Screwdriver](#) (1)
- [Tweezers](#) (1)
- [SIM Card Eject Tool](#) (1)
- [iFixit Opening Picks set of 6](#) (1)




PARTS:

- [iPhone 6s Front Panel Clips](#) (1)
- [iPhone 6s Loudspeaker Mount](#) (1)
- [iPhone 6s Microphone Mount](#) (1)
- [iPhone 6s OEM Rear Case](#) (1)
- [iPhone 6s NFC Bracket](#) (1)
- [iPhone 6s Screw Set](#) (1)

Step 1 — Pentalobe Screws



 Before disassembling your iPhone, discharge the battery below 25%. A charged lithium-ion battery can catch fire and/or explode if accidentally punctured.

- Power off your iPhone before beginning disassembly.
- Remove the two 3.4 mm P2 Pentalobe screws on the bottom edge of the iPhone, next to the Lightning connector.

Step 2 — Opening Procedure



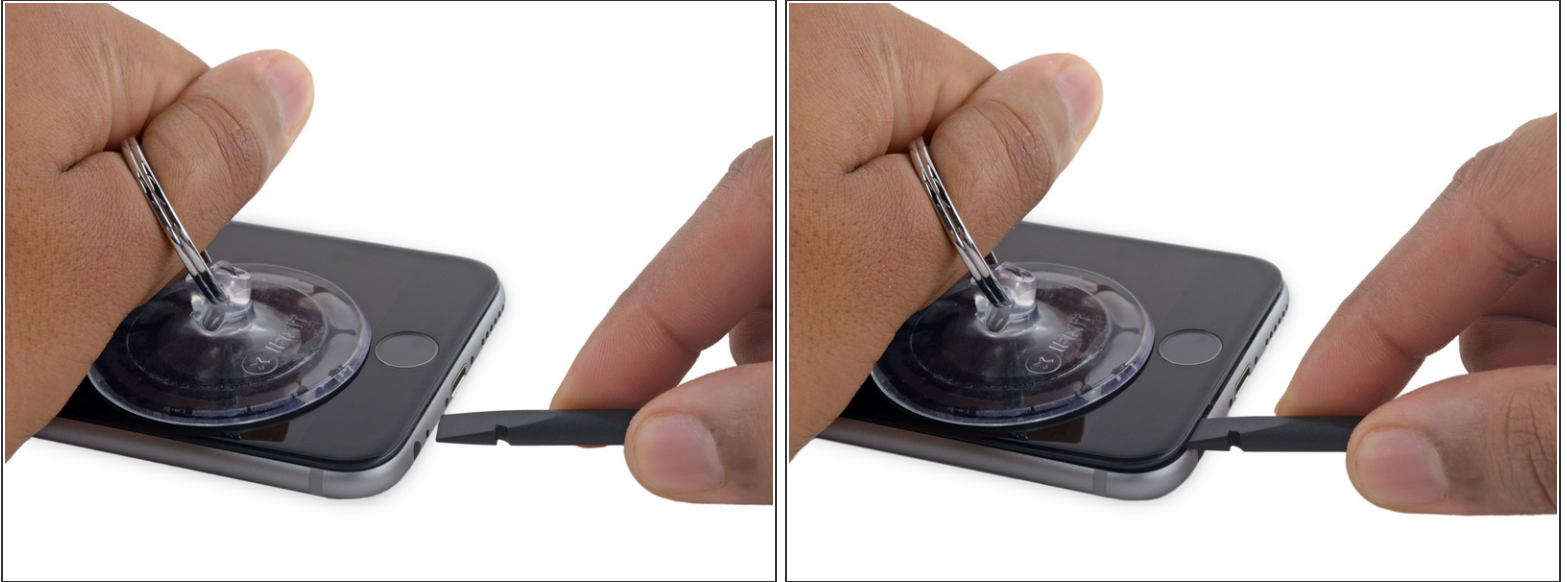
- ❗ Opening the display on the 6s separates a thin strip of adhesive around the perimeter of the display. If you prefer to replace the adhesive, have a set of new adhesive strips ready before you continue. It's possible to complete the repair without replacing the adhesive, and you probably won't notice any difference in functionality.
- Apply a suction cup to the lower left corner of the display assembly.
- Take care **not** to place the suction cup over the home button.

Step 3



- Pull up on the suction cup with firm, constant pressure to create a slight gap between the front panel and rear case.
 - ⓘ Take your time and apply firm, constant force. The display assembly is a much tighter fit than most devices and is held down with adhesive.
- ⚠ Pulling too hard may damage the display assembly. Apply just enough pressure to create a small gap between the display assembly and the rear case.

Step 4



- i** There is a notch on the underside of the display, just above the headphone jack. This is the safest place to begin prying the phone open.
- Place the flat edge of a spudger into the gap between the screen and rear case, directly above the headphone jack.

Step 5



- Twist the spudger to widen the gap between the front panel assembly and the rest of the phone.

Step 6



- Insert the flat end of the spudger on the left side of the phone, between the display assembly and rear case.
- Slide the spudger up the side of the phone to separate the adhesive and pop the clips free.

Step 7



- Remove the spudger and reinsert it on the bottom edge, where you pried the phone open.
- Slide the spudger to the right, along the bottom edge of the phone.

Step 8



- Slide the spudger up the right side to continue separating the adhesive and popping the display clips free from the iPhone.

Step 9



- Use the suction cup to open the display, breaking the last of the adhesive.

⚠ Don't open the display more than 90°, as it is still connected at the top by three cables that may break if stretched.

Step 10



- Pull up on the nub on the top side of the suction cup to remove it from the front panel.

Step 11



- Gently grasp the display assembly and lift it up to open the phone, using the clips at the top of the front panel as a hinge.
- Open the display to about a 90° angle, and lean it against something to keep it propped up while you're working on the phone.
 - Add a rubber band to keep the display securely in place while you work. This prevents undue strain on the display cables.

 In a pinch, you can use an unopened canned beverage to hold the display.

Step 12 — Battery Connector



- Remove the two Phillips screws securing the battery connector bracket:
 - One 2.9 mm screw
 - One 2.2 mm screw

Step 13



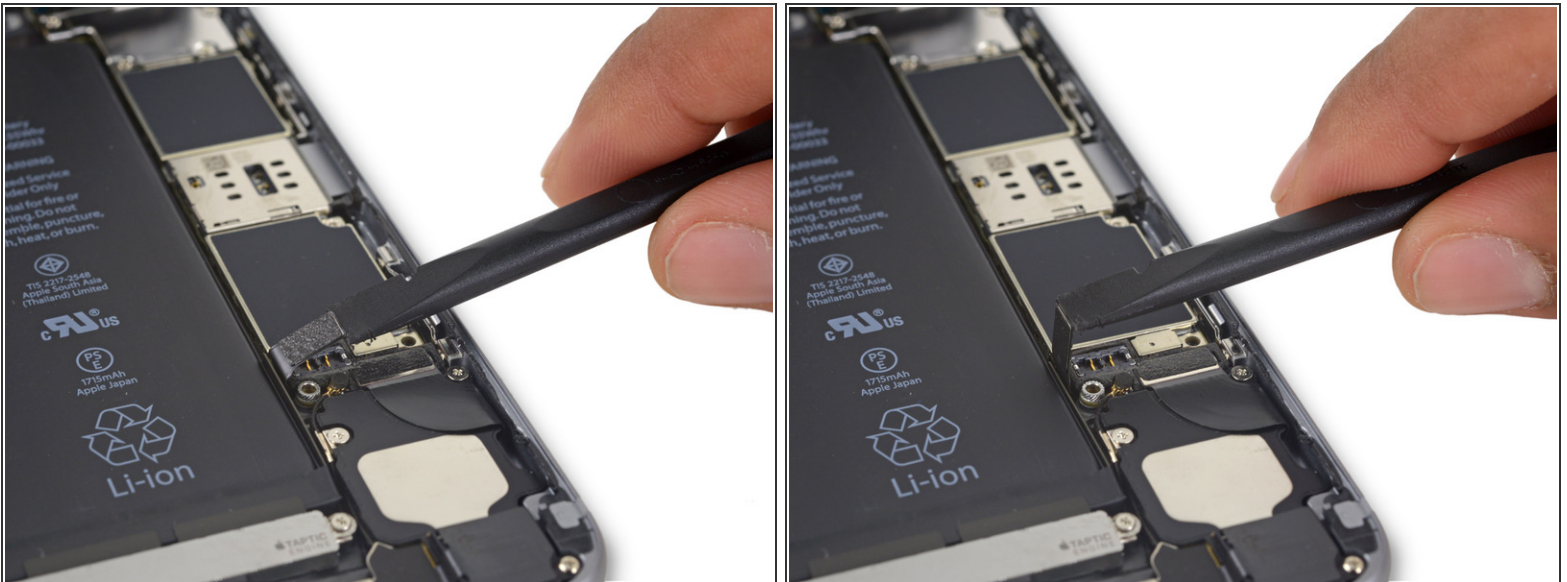
- Remove the battery connector bracket from the iPhone.

Step 14



- Use the point of a spudger to disconnect the battery connector by prying it straight up from the logic board.

Step 15



- Push the battery connector away from the logic board until it stays separated from its socket, so as to avoid any accidental connection to the battery while you work.

Step 16 — Front Panel Assembly



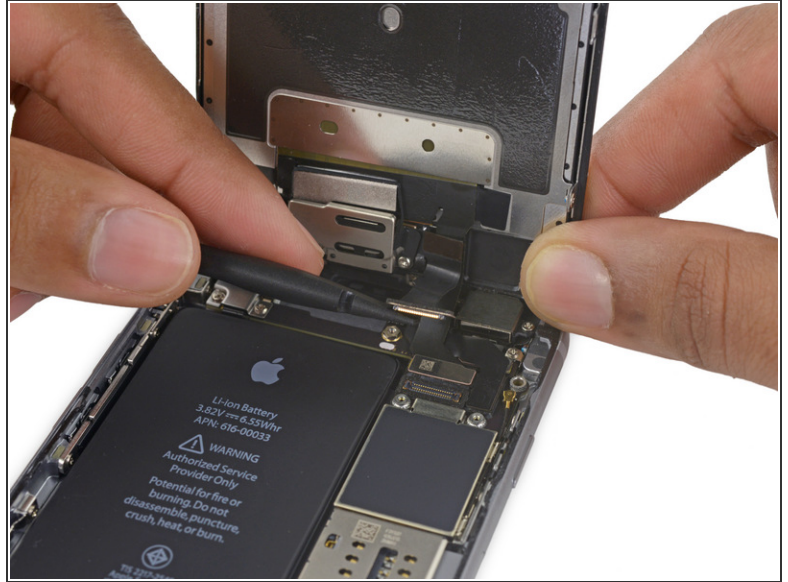
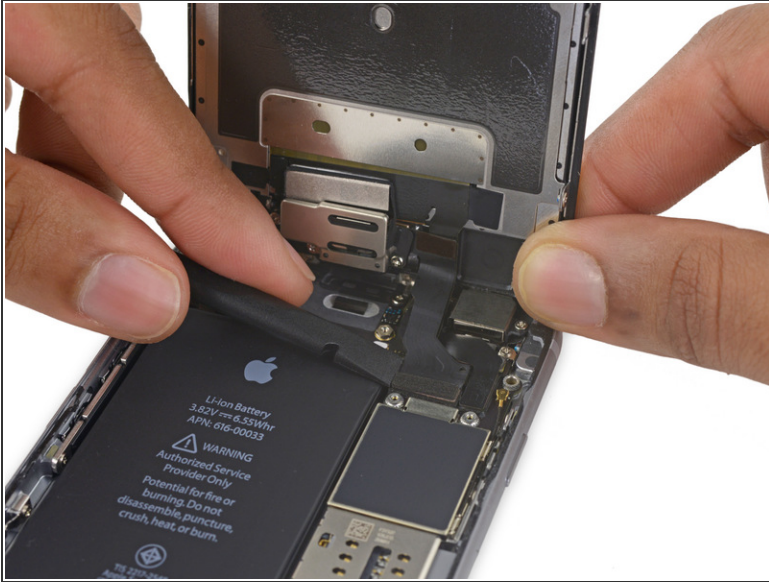
- Remove the following four Phillips screws securing the display cable bracket:
 - Three 1.2 mm screws
 - One 2.8 mm screw

Step 17



- Remove the display cable bracket.

Step 18



- Use the flat end of a spudger, or a fingernail, to disconnect the front camera flex cable by prying it straight up from its socket on the logic board.

Step 19



- Use the flat end of a spudger, or a fingernail, to disconnect the digitizer cable by prying it straight up from its socket on the logic board.

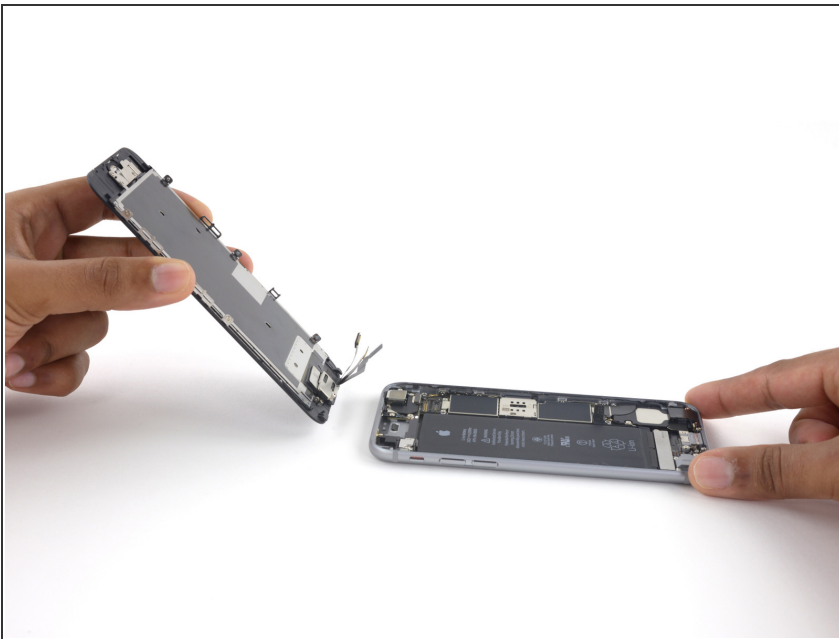
⚠ When reconnecting the digitizer cable, **do not press the center of the connector**. Press one end of the connector, then press the opposite end. Pressing in the center of the connector can bend the component and cause digitizer damage.

Step 20



- Use the flat end of a spudger, or a fingernail, to disconnect the display data cable by prying it straight up from its socket on the logic board.

Step 21



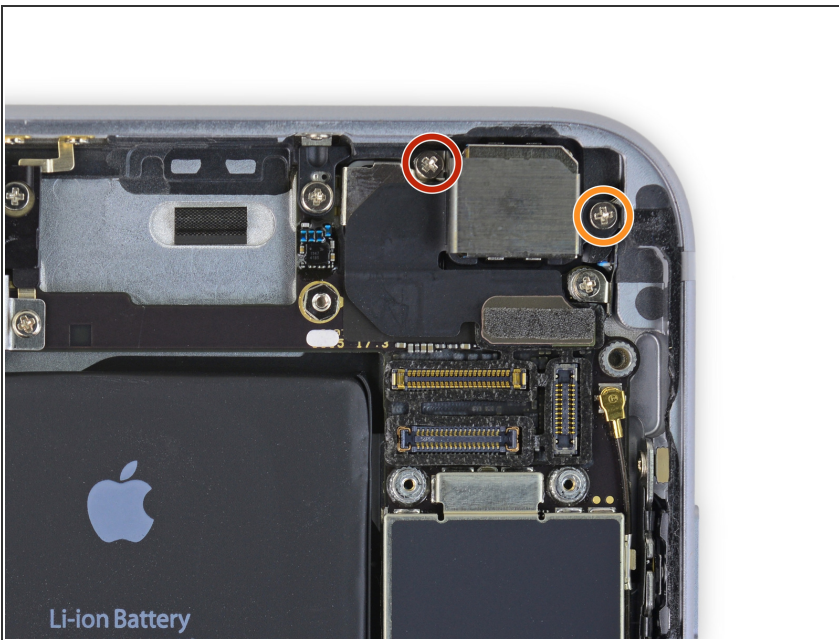
- Remove the display assembly.
- ☑ During reassembly, pause here if you wish to [replace the adhesive around the edges of the display](#).

Step 22 — iSight Camera



- Use the flat end of a spudger to disconnect the iSight camera from its socket on the logic board.

Step 23



- Remove the following two Phillips screws over the iSight camera bracket:
 - One 1.6 mm screw
 - One 2.0 mm screw

Step 24



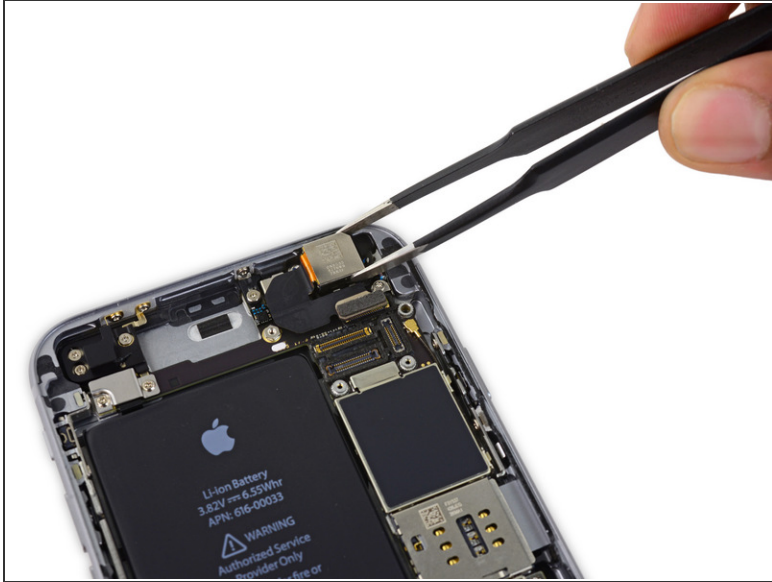
- Remove the camera bracket.

Step 25



- Insert a spudger to the side of the camera, between the rear case and the camera module.
- Gently pry up on the camera to nudge it out from its housing.

Step 26



- Remove the camera.

Step 27 — SIM Tray



- Insert a SIM card ejector tool or a paperclip into the small hole in the SIM card tray.
- Press to eject the tray.
- ⓘ This may require a significant amount of force.

Step 28



- Remove the SIM Card tray assembly from the iPhone.
- ✦ When reinserting the SIM card, ensure that it is in the proper orientation relative to the tray.

Step 29 — Logic Board



- Remove the two 2.3 mm Phillips screws securing the upper component cable connector bracket.

Step 30



- Remove the upper component cable connector bracket.

Step 31



- Remove the following five Phillips screws securing the top left Wi-Fi antenna:
 - Two 1.5mm screws
 - One 2.3 mm screw
 - One 1.9 mm screw
 - One 2.0 mm screw

Step 32



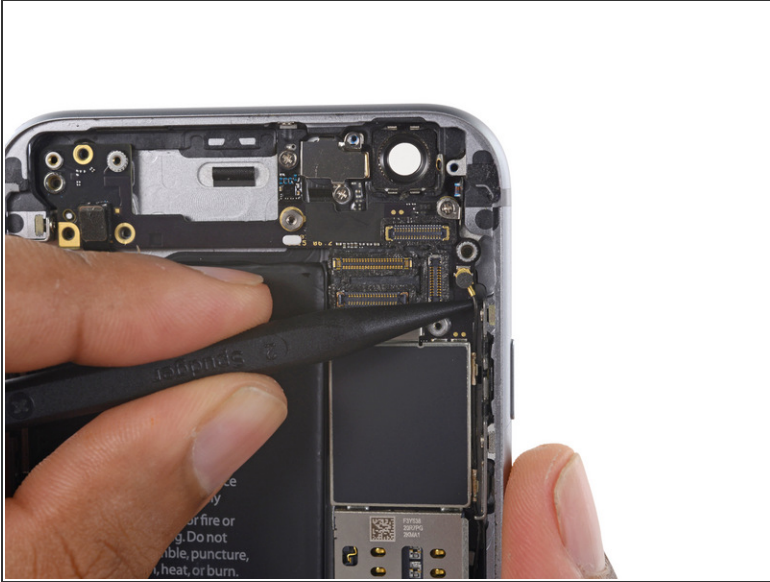
- Remove the top left Wi-Fi antenna.

Step 33



- Use the flat end of a spudger to disconnect the audio control cable from its socket on the logic board.

Step 34



- Use the pointed tip of a spudger to disconnect the antenna cable from its socket on the upper right corner of the logic board.

Step 35



- Use the pointed tip of a spudger to disconnect the antenna cable from its socket on the lower left corner of the logic board.

Step 36



- Insert the flat end of a spudger underneath the Lightning connector ribbon cable. Lift up to disconnect it from its socket on the logic board.

Step 37



- Gently pull up on the antenna cable to de-route it from the two clips on the right side of the logic board.

Step 38



- Remove the 1.3 mm Phillips screw securing the NFC bracket to the logic board.

Step 39



- Remove the NFC bracket.

Step 40



- Remove the following two Phillips screws:
 - One 2.5 mm screw at the top of the logic board
 - One 1.4 mm screw set into the upper edge of the rear case

Step 41



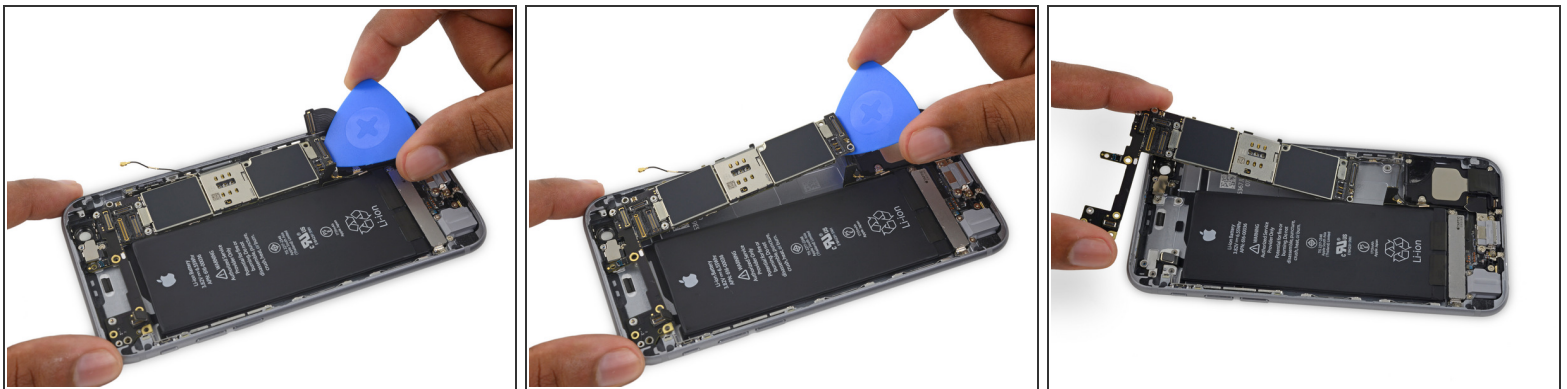
- Remove the plastic clip.

Step 42



- Remove the final three screws securing the logic board to the rear case:
 - One 1.9 mm Phillips screw
 - One 2.5 mm standoff hex nut
 - One 1.8 mm Phillips screw

Step 43



- Insert an opening pick below the lower edge of the logic board, between the board and the loudspeaker.
- Use the opening pick to gently lift the logic board out of its housing.
- Remove the logic board.

Step 44 — Upper Component Cable



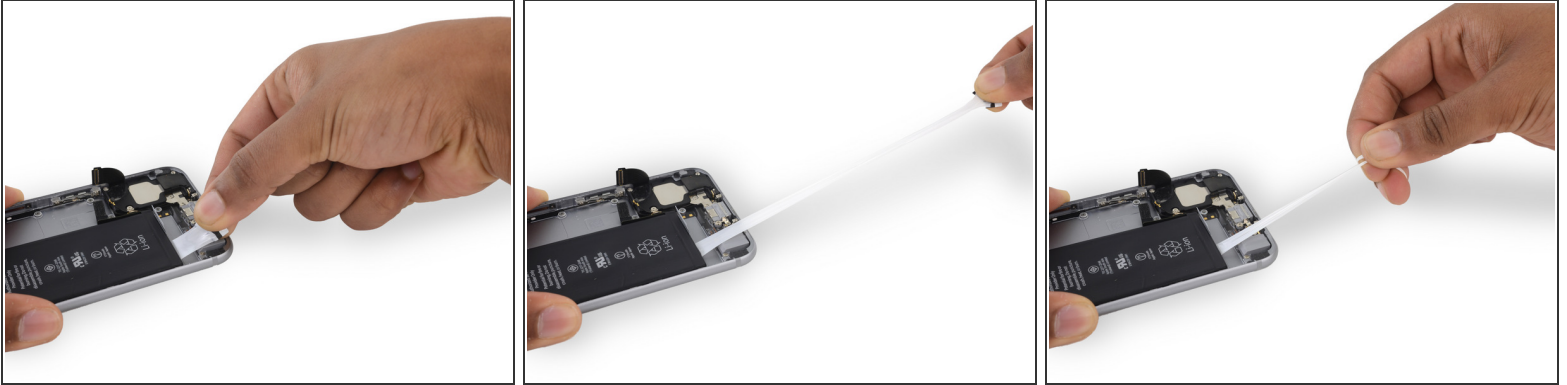
- Remove the two 1.5 mm Phillips screws holding the Taptic Engine in place.
- Remove the Taptic Engine.


Step 45





- Use tweezers to peel up the tips of the battery adhesive strips at the lower edge of the battery.

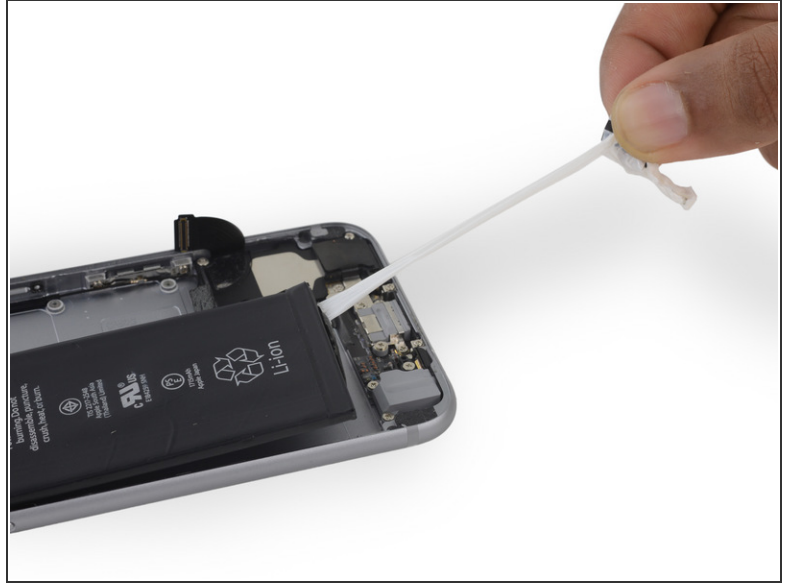
Step 46



 Try not to wrinkle the strips during this procedure—they will become very difficult to deal with and will not straighten out again.

- Pull one of the adhesive strips straight out, towards the bottom of the iPhone.
 - For best results, pull the strip at a 60° angle or less.
 -  The strip will stretch to many times its original length. Continue to pull steadily, re-grabbing the strip closer to the iPhone if necessary.
 - Continue pulling until the strip is fully removed.
-  If the battery adhesive tabs break off at any point during the removal process, use your fingers or blunt tweezers to retrieve the remaining length of adhesive, and continue pulling.
- If one of the adhesive strips breaks under the battery during this procedure, and cannot be retrieved, remove the remaining strip, and then skip to [Step 48](#).

Step 47



- Repeat the previous step for the second adhesive strip.

⚠ Use one hand to hold down the battery as you remove the second strip, or the strip may fling the battery from the phone once it separates from the rear case.

Step 48



- **If you successfully removed all three adhesive strips, move on to the next step.** Otherwise, you will need to pry the battery from the rear case.
- [Prepare an iOpener](#) and apply it to the back of the rear case, directly over the battery. Alternatively, you can apply heat using a heat gun or hair dryer.
- After about a minute, flip the phone over and use a plastic card to break up any remaining adhesive behind the battery.

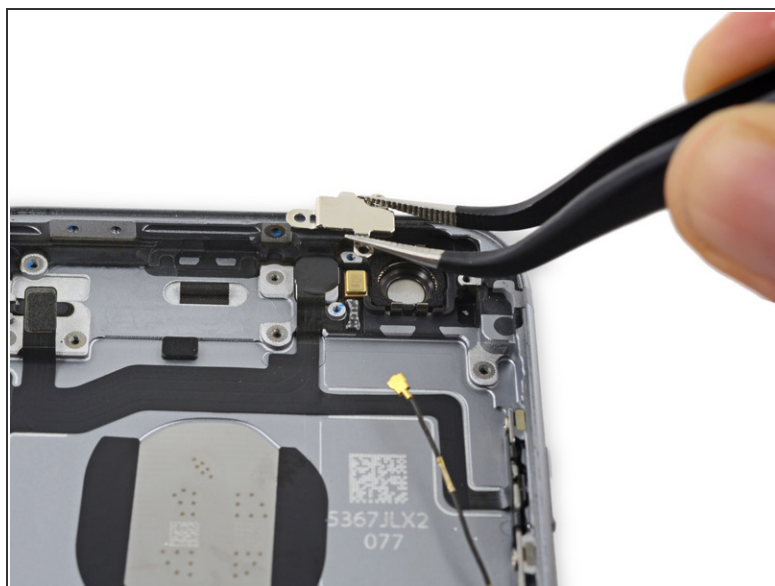
Step 49



- Remove the battery.

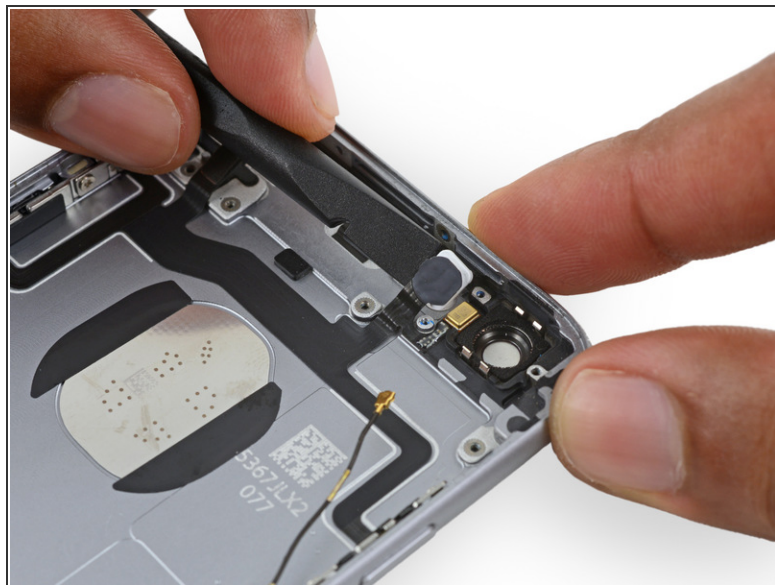
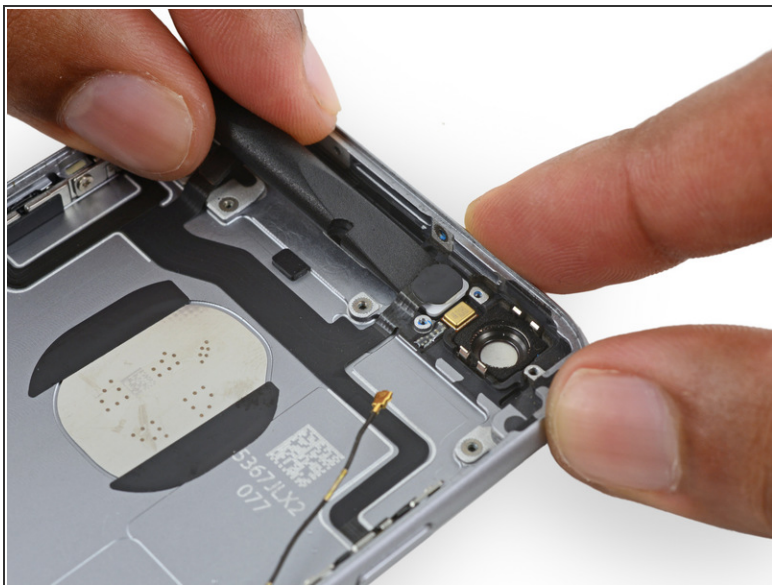
☒ When installing the battery, refer to [this guide](#) to replace your battery's adhesive strips.

Step 50



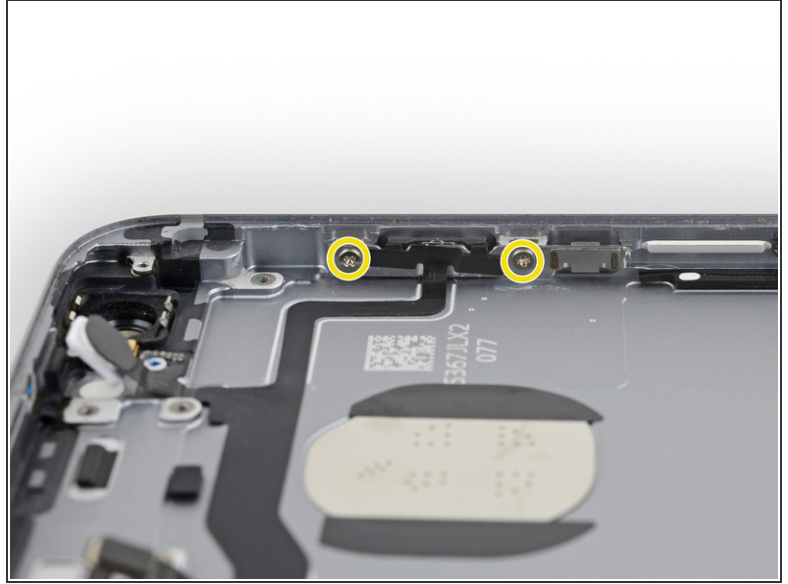
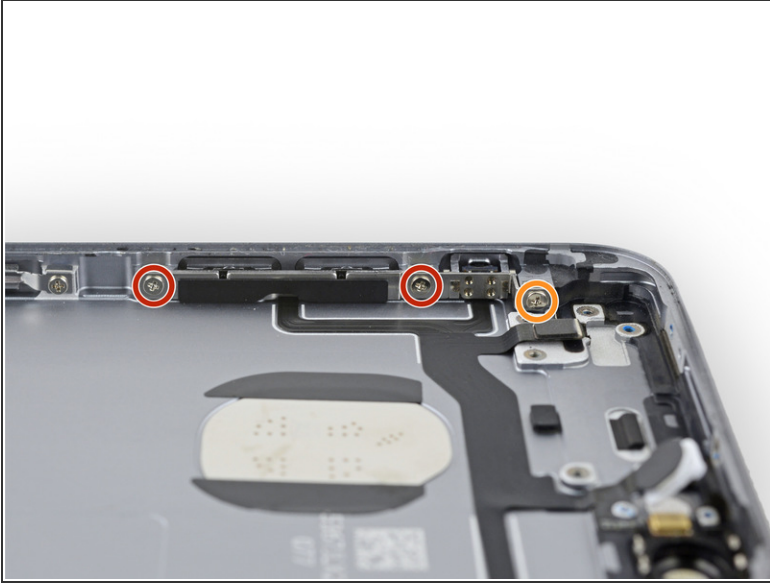
- Remove the single 1.3 mm Phillips screw securing the flash bracket.
- Remove the flash bracket.

Step 51



- Use the flat end of a spudger to lift the flash out of its housing in the rear case.

Step 52



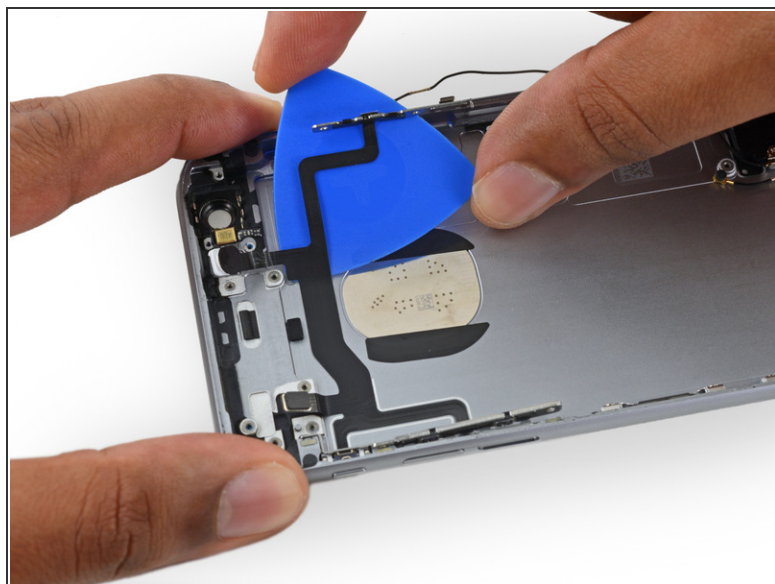
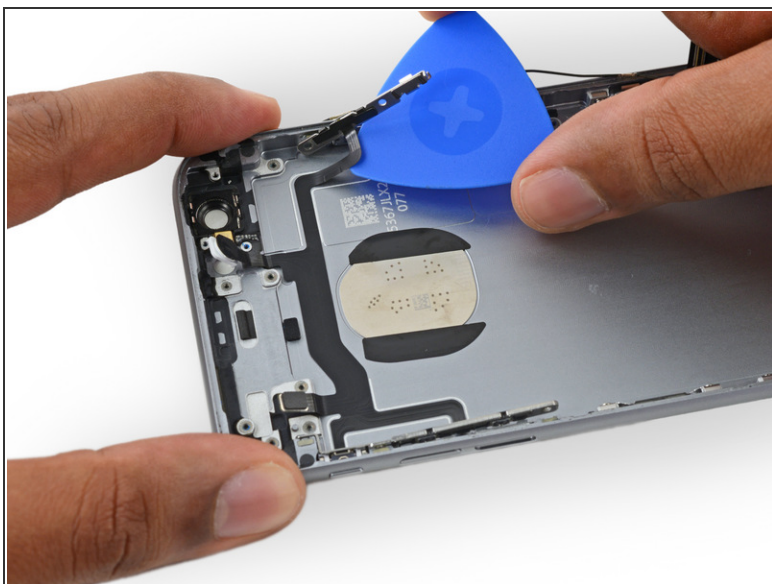
- Remove the following five Phillips screws:
 - Two 2.5 mm screws set into the left edge of the rear case
 - One 2.1 mm Phillips #000 screw set into the left edge of the rear case
 - Two 2.1 mm screws set into the right edge of the rear case
- ☞ If you overtighten these screws during reassembly, your power and volume buttons may not click properly. Check the clicking action on each button before you continue with reassembly.

Step 53



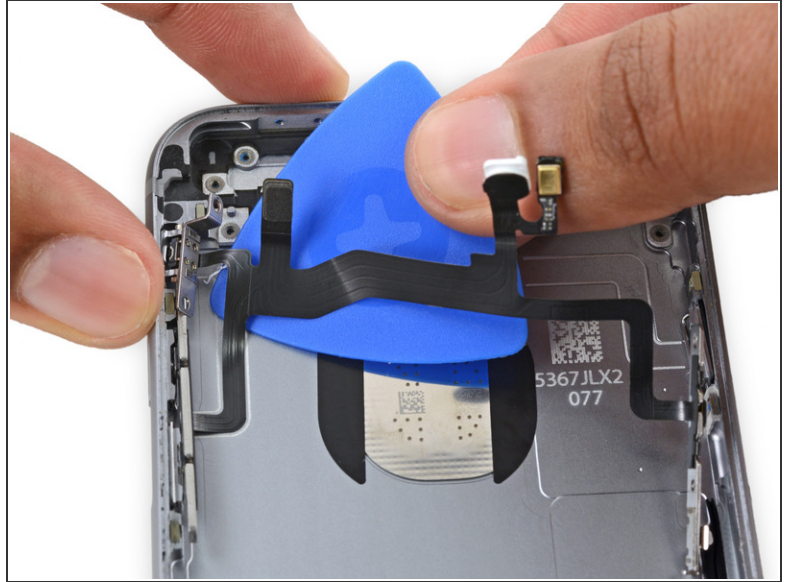
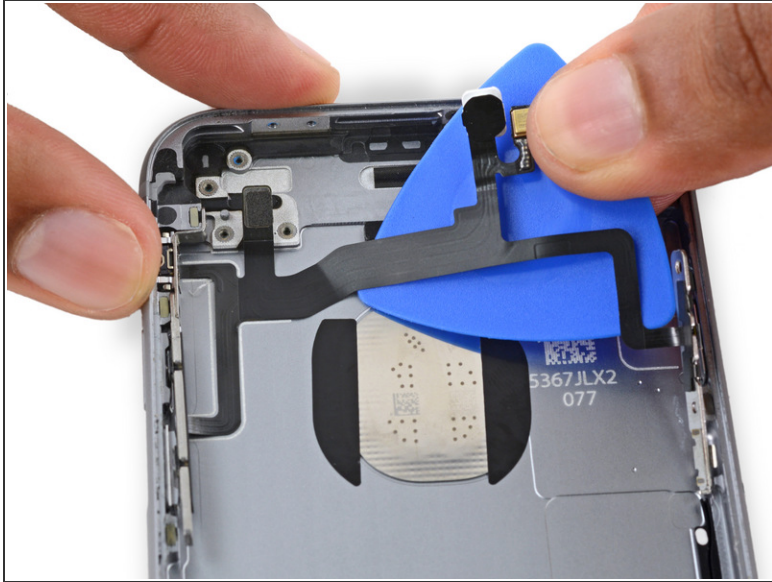
- Use the pointed tip of a spudger to gently separate the microphone from the rear case.

Step 54



- Slide an opening pick between the upper component cable and the rear case.
- Gently separate the cable from the rear case.

Step 55



- Continue pushing the opening pick under the cable until it fully separates from the rear case.


Step 56



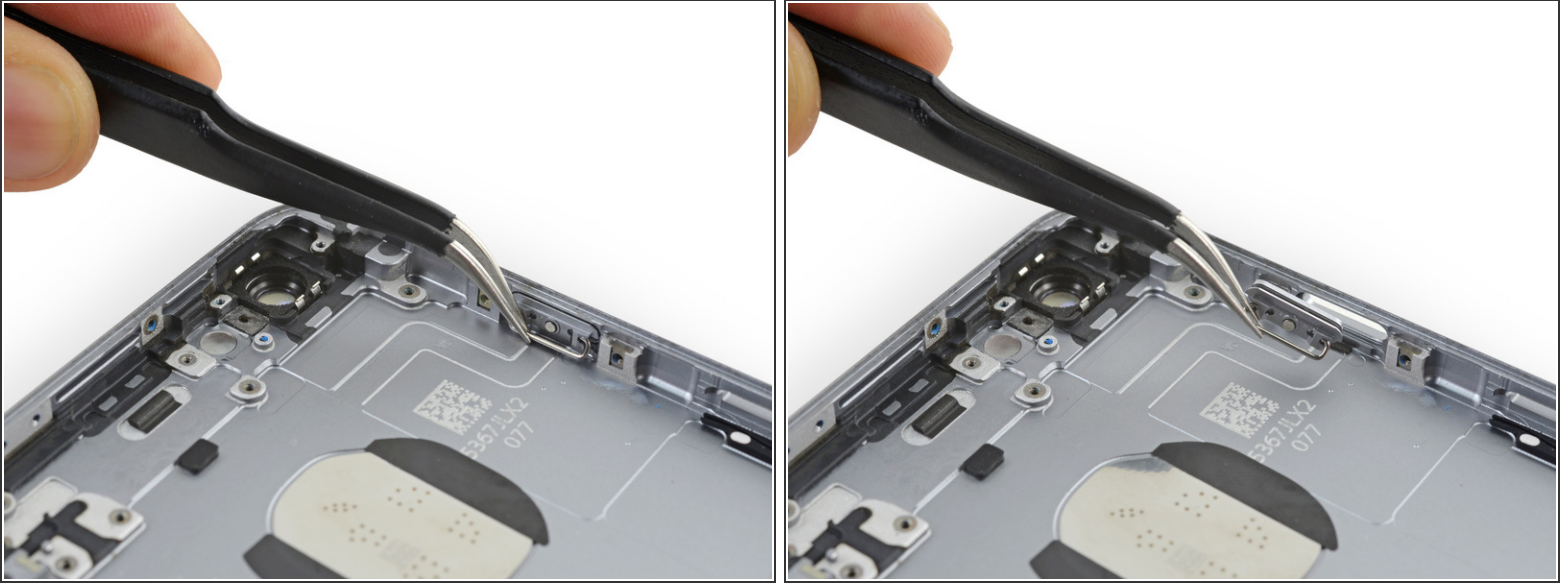
- Remove the upper component cable assembly.

Step 57 — Volume Control Button Covers



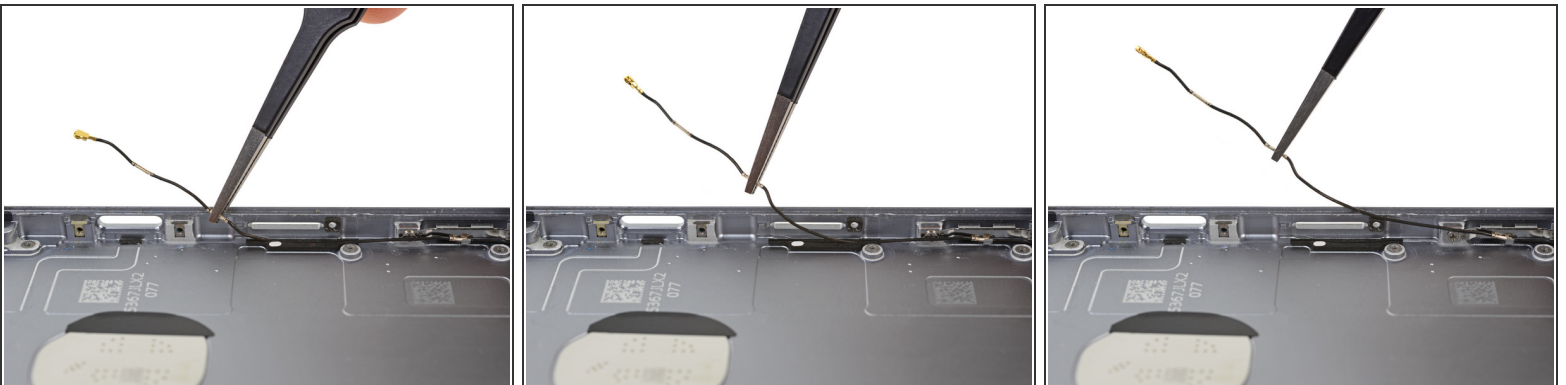
- Grasp the metal bar behind either of the two volume control button covers, and pull the button cover out of its housing in the rear case.
 - Repeat for the second volume control button cover.
-  Check for proper orientation when reinstalling the button covers. The metal bar should swing downward, towards the rear case of the iPhone.

Step 58 — Power Button Cover



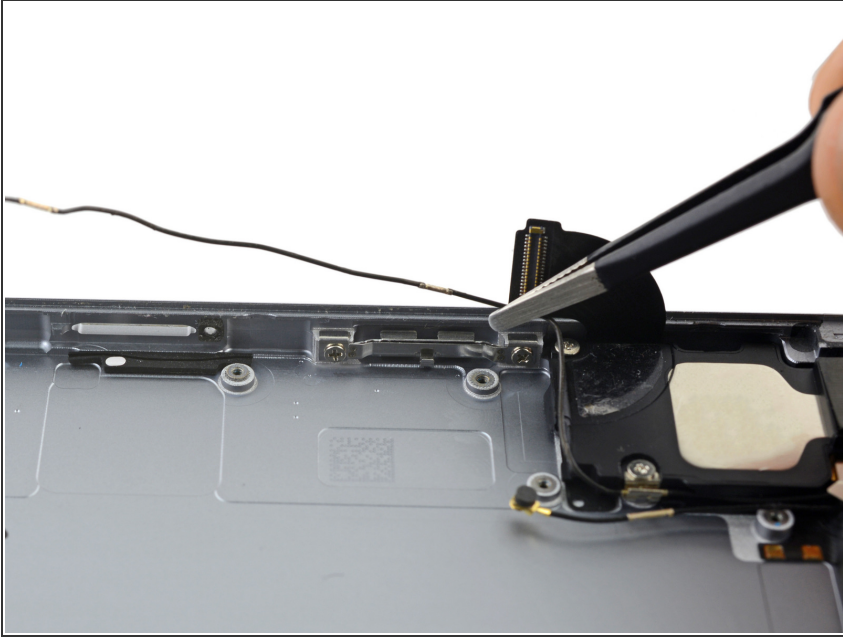
- Grasp the metal bar on the back of the power button cover.
 - Remove the power button cover.
- ☑ Check for proper orientation when reinstalling the button cover. The metal bar should swing downward, towards the rear case of the iPhone.

Step 59 — Rear Case



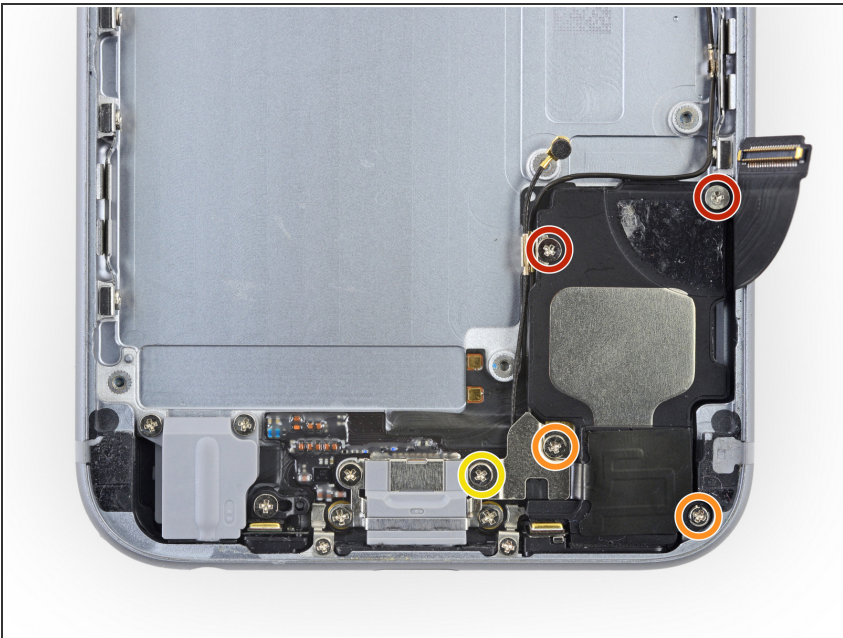
- Deroute the antenna cable from its rubber sleeve on the right edge of the rear case.

Step 60



- Remove the antenna cable from the metal clip on the right edge of the rear case.

Step 61



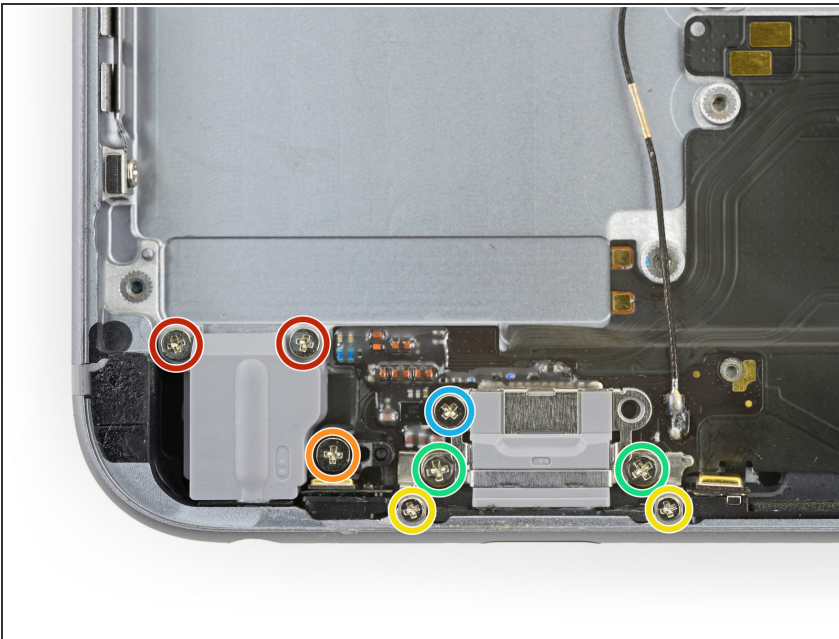
- Remove the following five Phillips screws securing the speaker to the rear case:
 - Two 2.6 mm screws
 - Two 2.3 mm screws
 - One 3.0 mm screw

Step 62



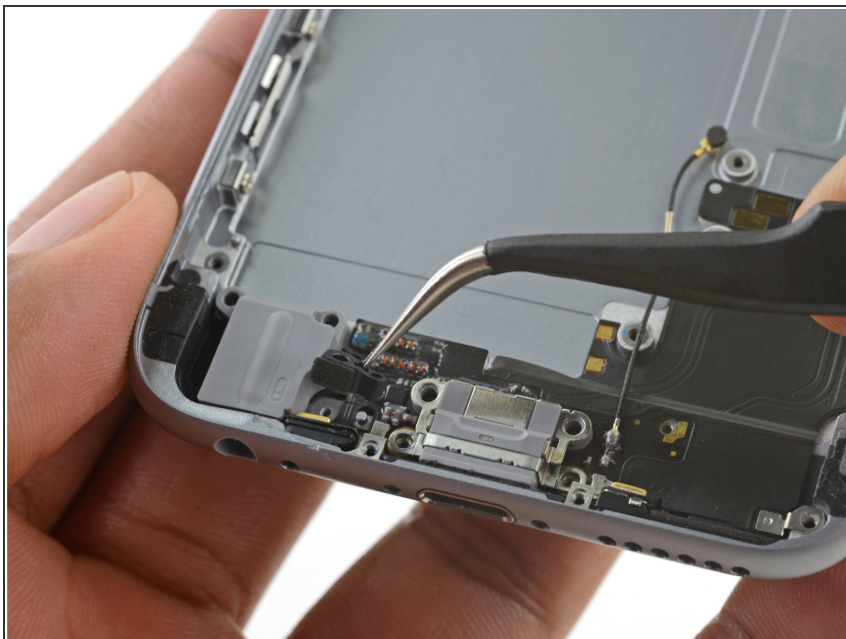
- Use your fingers to lift the speaker out of its housing in the rear case.
- Remove the speaker assembly.

Step 63



- Remove the following eight Phillips screws:
 - Two 2.9 mm screws securing the headphone jack
 - One 3.7 mm screw securing the microphone bracket
 - Two 1.3 mm screws on the lower edge of the iPhone
 - Two 1.9 mm screws on either side of the Lightning connector
 - One 3.0 mm screw to the left of the connector

Step 64



- Remove the plastic microphone bracket.

Step 65



- Insert an opening pick between the Lightning connector assembly and the rear case to begin breaking up the adhesive holding the flex cable in place.

Step 66



- Use the flat end of a spudger to continue separating the Lightning connector assembly from the rear case.

Step 67



- Use the tip of a spudger to separate the two microphones from the lower edge of the rear case.

Step 68



- Remove the Lightning connector and headphone jack assembly.

Step 69



- Only the rear case remains.

To reassemble your device, follow these instructions in reverse order.